In the Claims

Please cancel claims 25 and 29.

Please amend the claims as follows:

(Amended) A data system for an aircraft, comprising:

a digital flight data acquisition unit in communication with at least one sensor;

a processor in communication with said digital flight data acquisition unit;

a serial card in communication with said processor; and

a plurality of cell channels in communication with said serial card, said cell channels for

cansmitting data via a cellular infrastructure after the aircraft has landed.

16. (Amended) The system of claim 15 wherein said means for [sending] transmitting data includes a processor.

26. (Amended) The method of claim [25] 34 wherein starting a primary data thread includes:

initiating a PPP connection;

initiating a transfer session;

starting at least one secondary data thread;

determining if data remains in the primary data thread;

sending said data when data remains in the primary data thread;

determining if data threads are active when no data remains in the primary data thread;

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repeating, when said threads are active, the step of determining if data remains in the primary data thread;

ending said session when no threads are active;

closing said PPP connection; and

exiting starting a primary data thread.

30. (Amended) The method of claim [29] 22 wherein initializing a session includes: allocating buffer space; sending an initiation session acknowledgment; and returning to receiving a message.

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31. (Amended) The method of claim [29] 32 wherein processing said message when said message is a data message includes:

copying said message to a buffer; sending a data message acknowledgment; and returning to receiving a message.

32. (Amended) The method of claim [29] wherein processing said message when said message is not an end session includes:

computing a checksum;

determining if said checksum is valid;

saving a buffer to a temporary file;

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decrypting said temporary file; uncompressing said temporary file; sending an end session acknowledgment; and returning to receiving a message.

Please add the following new claims:

A computer-implemented method of transmitting aircraft flight data from an

aircraft, comprising:

receiving flight data from a digital flight data acquisition unit;

processing said flight data to prepare said data for transmission; and

transmitting said processed data via a cellular infrastructure after the aircraft has landed,

wherein processing said flight data includes:

receiving a weight-on-wheels signal;

initiating a data transfer;

compressing said flight data;

encrypting said compressed data;

creating a packet queue;

starting a primary data thread;

waiting a predetermined period of time;

determining if any threads are active;

repeating, when threads are active, the steps of waiting a predetermined period of time and determining if any threads are active; and

exiting processing said flight data when no threads are active.

A computer-implemented method of transmitting aircraft flight data from an aircraft, comprising:

receiving flight data from a digital flight data acquisition unit;

processing said flight data to prepare said data for transmission; and

transmitting said processed data via a cellular infrastructure after the aircraft has landed;

receiving said transmitted data at a flight operations center, wherein receiving said transmitted data includes:

creating a socket;

receiving a message;

determining if said message is an initialization message;

initiating a session when said message is an initialization message;

determining if said message is a data message when said message is not an

initialization message;

processing said message when said message is a data message;

determining if said message is an end session when said message is not a data

message;

and

processing said message when said message is an end session; and repeating, when said message is not an end session message, the step of receiving

a message.